2004

MITSUBISHI ELECTRIC
DIGITAL TELEVISIONS™

V26 Chassis
Part Replacement Instructions

- **Optical Engine**
- **Electrical Chassis**
- **HDD (PVR)**
- **PWB's**

V26	V26+	V26++
WD-52525	WD-52725	WD-52825
WD-62525	WD-62725	WD-62825

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC.
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V26 CHASSIS
Part Replacement Instructions

Note: Replacement Instructions are packaged with replacement parts.

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SIGNAL PWB REPLACEMENT

TERMINAL 1 & 2 PWB REPLACEMENT

MITSUBISHI INSTRUCTIONS: V26 CHASSIS REPLACEMENT

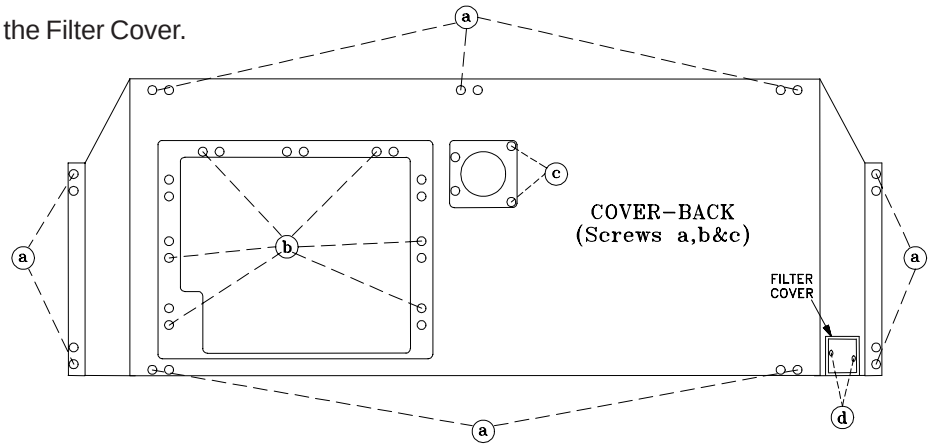
CHASSIS REMOVAL

FILTER-COVER Removal

Remove 2 screws (d) to remove the Filter Cover.

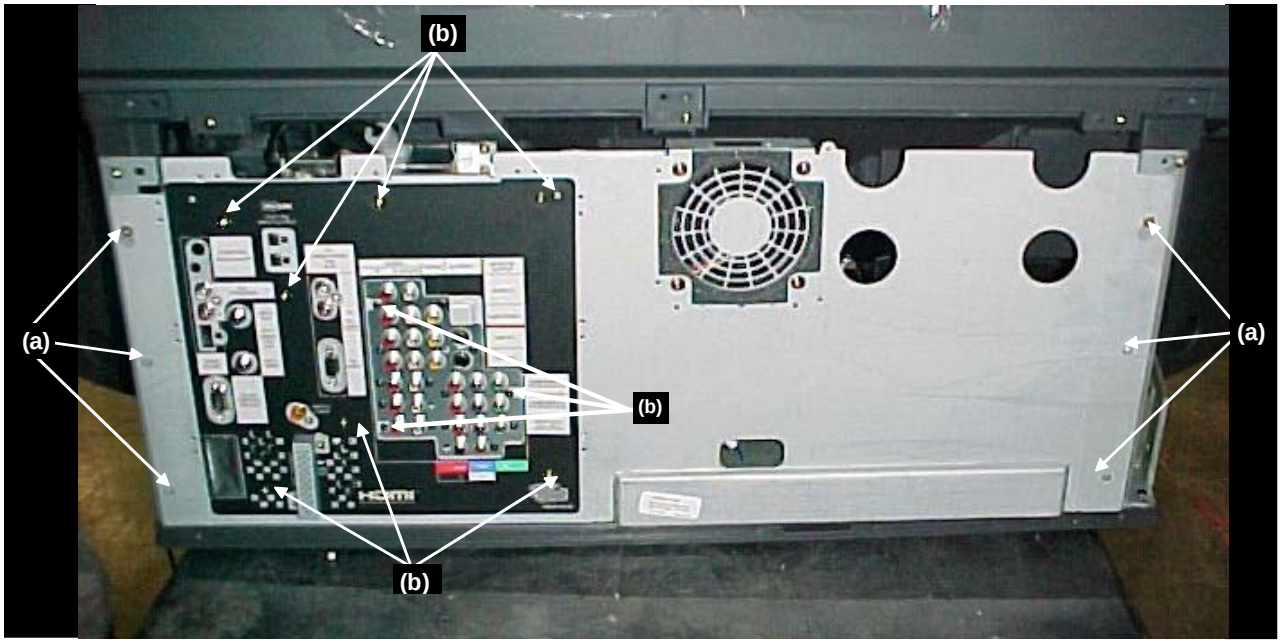
COVER-BACK Removal

1) Remove 9 screws (a)
2) Remove 6 screws (b)
3) Remove 2 screws (c)
4) Pull the COVER-BACK from the cabinet.

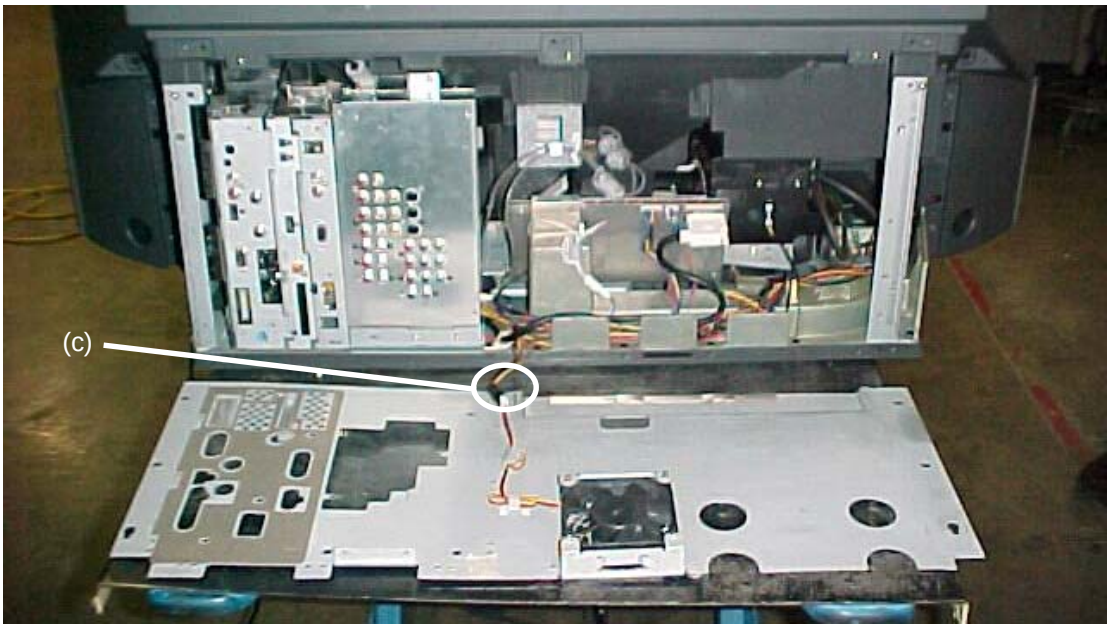


REAR PLATE Removal

1) Remove 6 screws (a)
2 Remove10 screws (b)
3) Pull the Rear Plate from the cabinet.

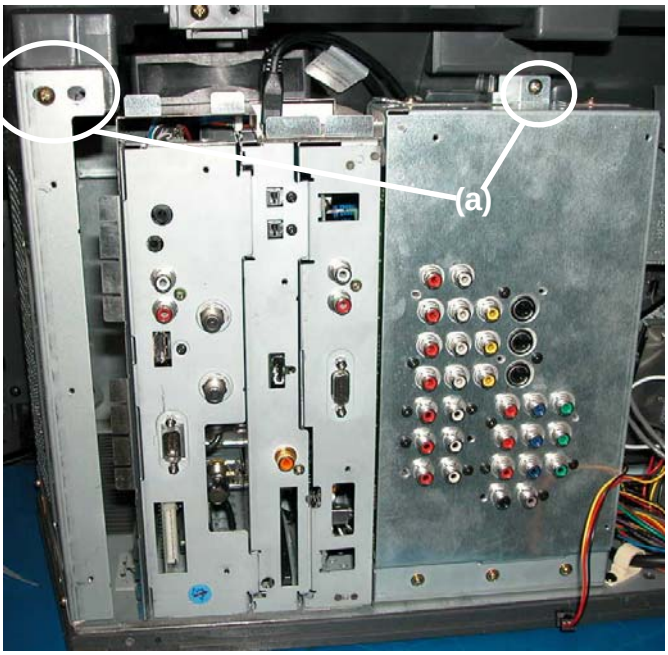


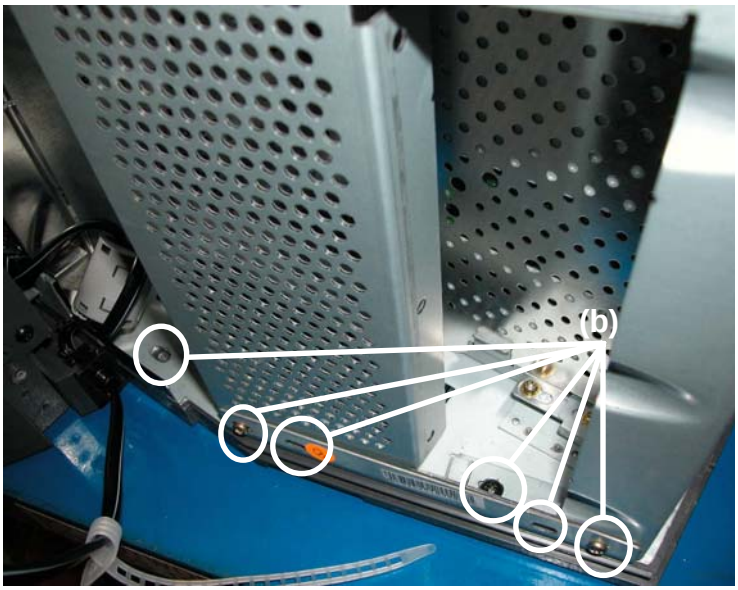
4) Disconnect FN2 connector (c)



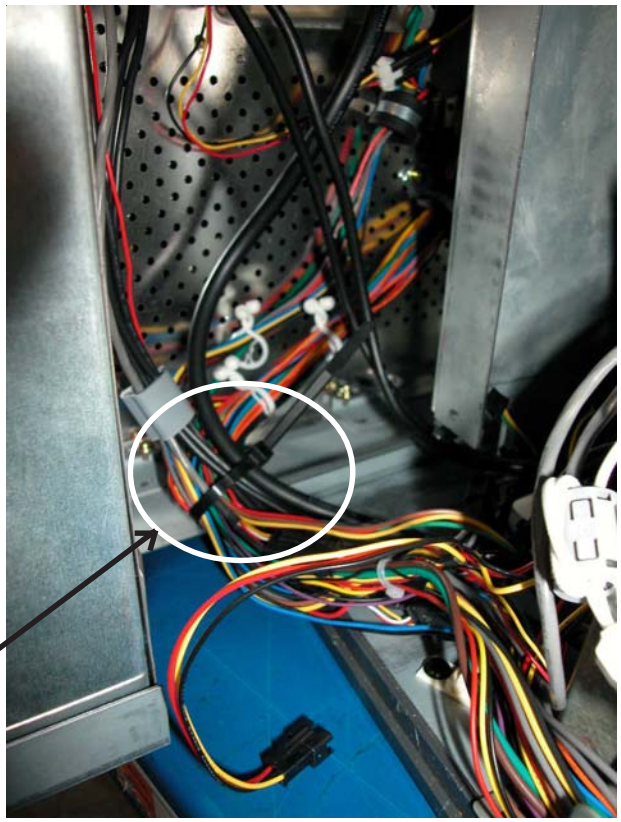
Chassis Removal

1) Remove the 2 screws (a) securing the chassis to the top base.
2) Remove 6 screws (b) securing the chassis to the bottom base and the left bracket.
3) Unplug the USB and 1394 connectors from the Chassis.
   NOTE: In the V26++ chassis the Card Reader 1394 connector plugs into the Hard Drive Module.



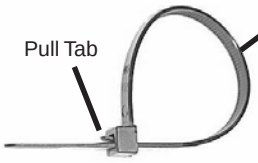


4) Remove AC cord from notch

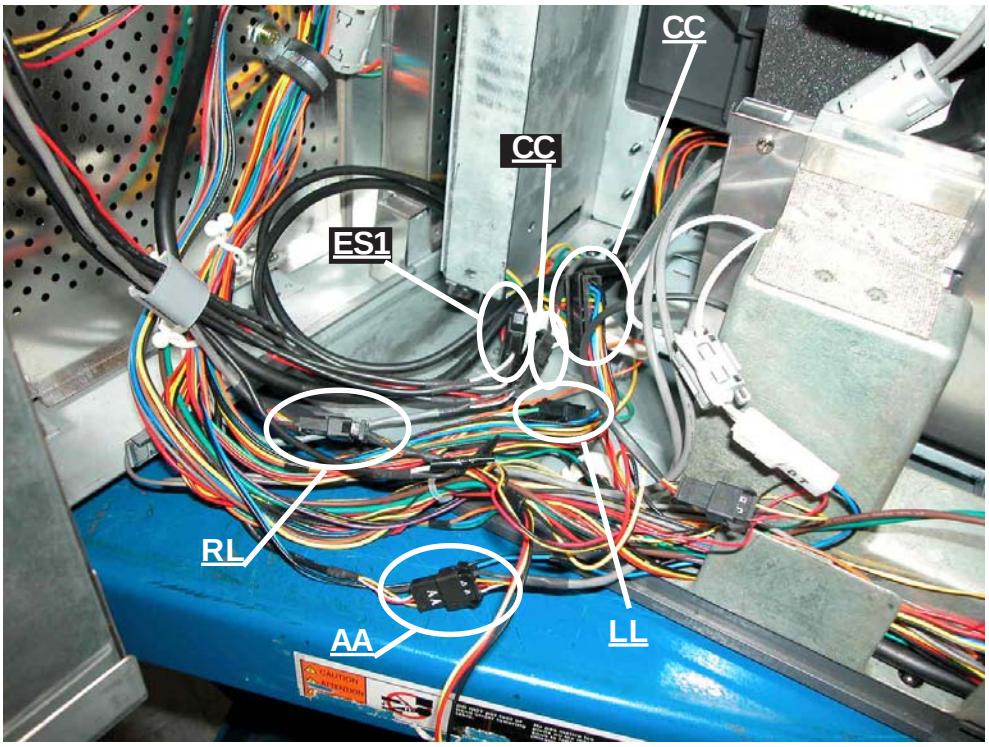


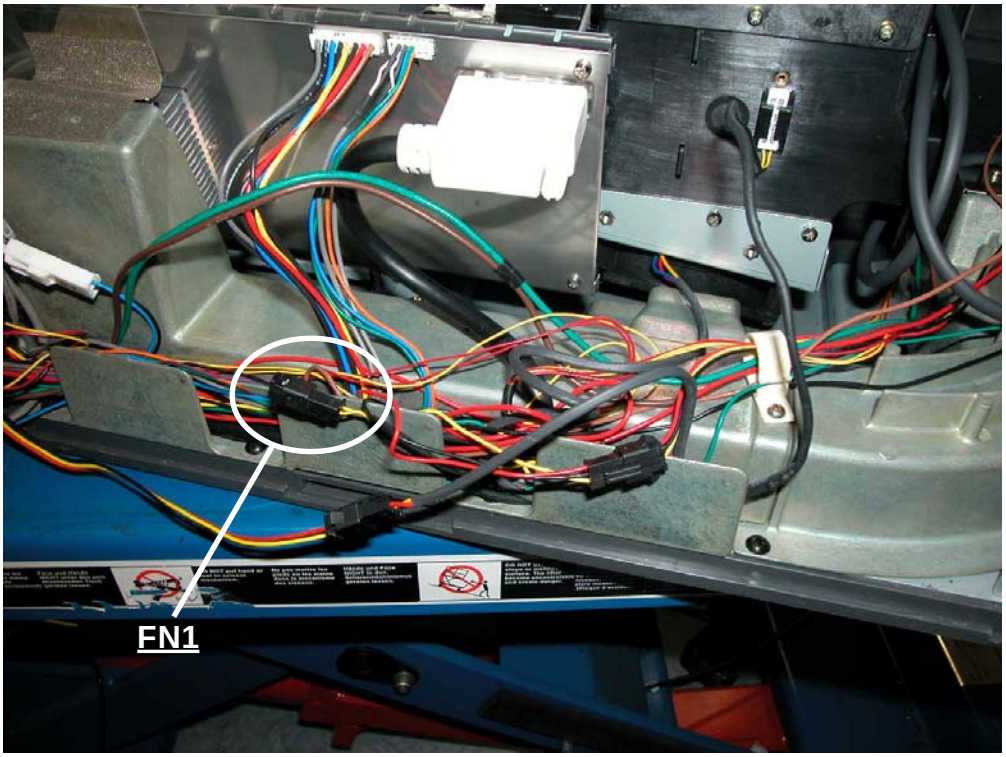
5) Carefully slide the chassis from the cabinet.

6) Remove cable tie.
   Note: This cable tie can be unlocked and reused.



7) Disconnect 8 connectors from chassis to other devices.
(AA, RL, ES1, CC(2-pin), LL, CC(12-pin), FN1, and DVI cable to Chassis)





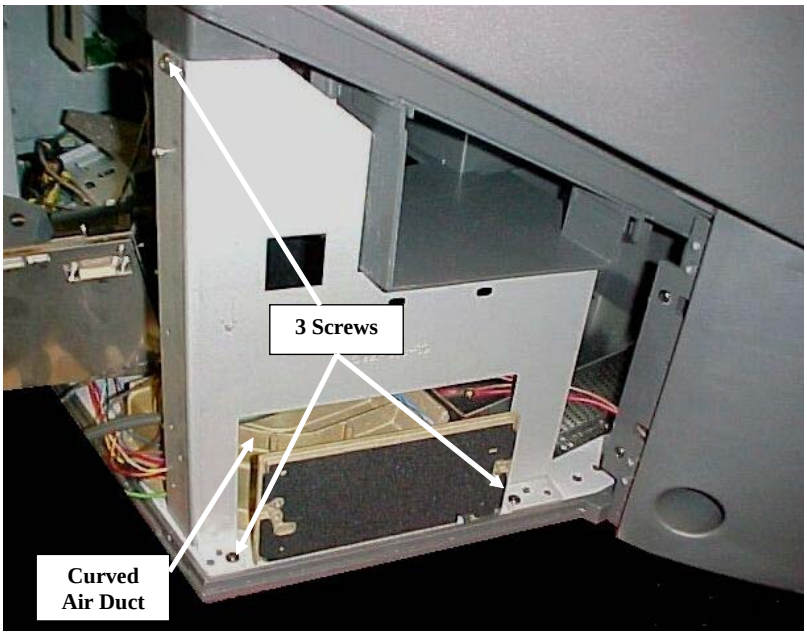
MITSUBISHI INSTRUCTIONS: V26 CHASSIS REPLACEMENT

NOTE: To remove the chassis, the two connectors to the Lamp Ballast must be disconnected at the Lamp Ballast.

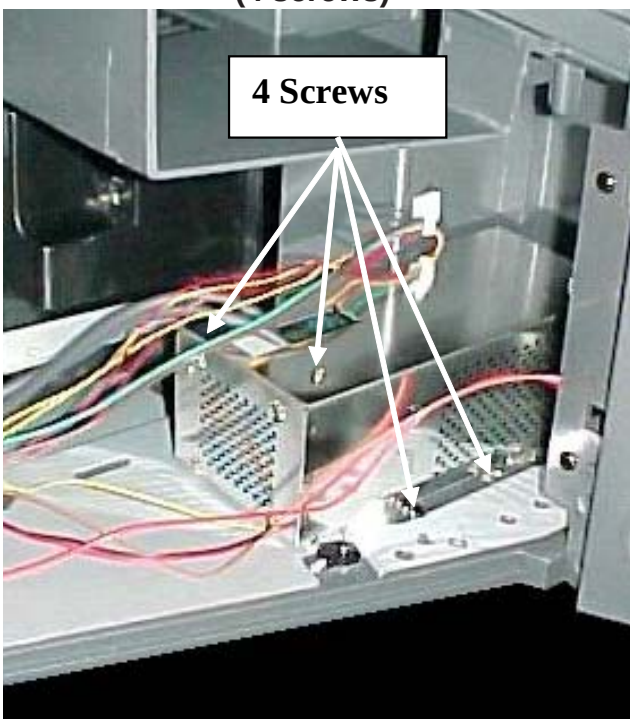
Accessing & Disconnecting The Lamp Ballast

Removing the Right Support

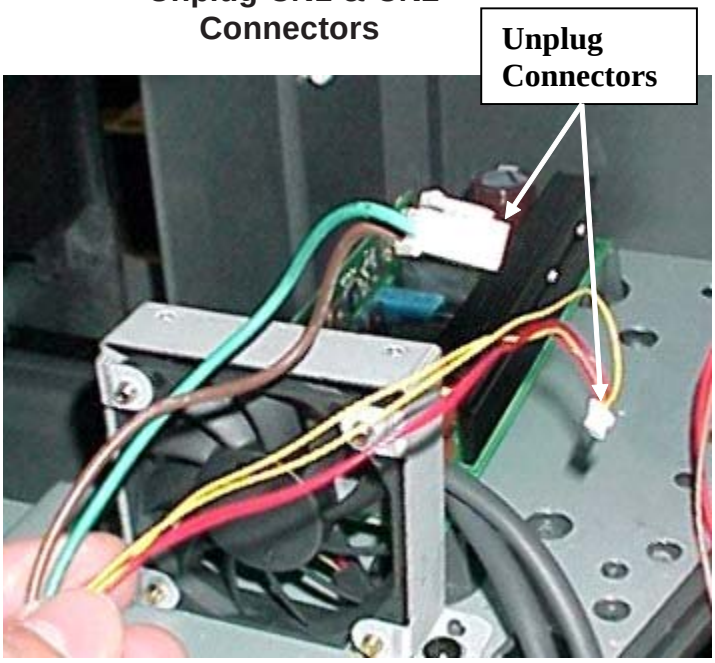
1) Remove the 3 screws shown below.



Removing the Lamp Ballast Shield (4 screws)



Unplug CN1 & CN2 Connectors



Chassis can now be removed.

NEW CHASSIS INSTALLATION

To install a new chassis, reverse previous steps for removal.

Perform DATA COPY Procedure: MENU+24570, select "Copy Light Engine Data to DM", press ENTER.

See V26 Service Manual for Details.

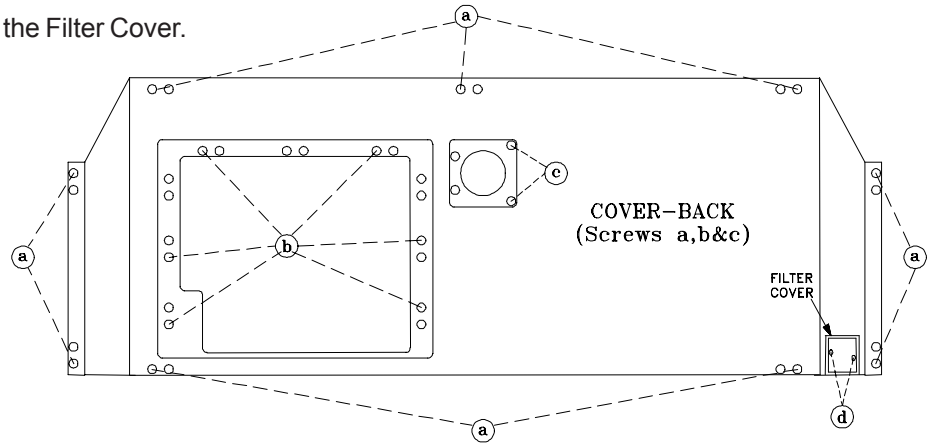
ENGINE REMOVAL

FILTER-COVER Removal

Remove 2 screws (d) to remove the Filter Cover.

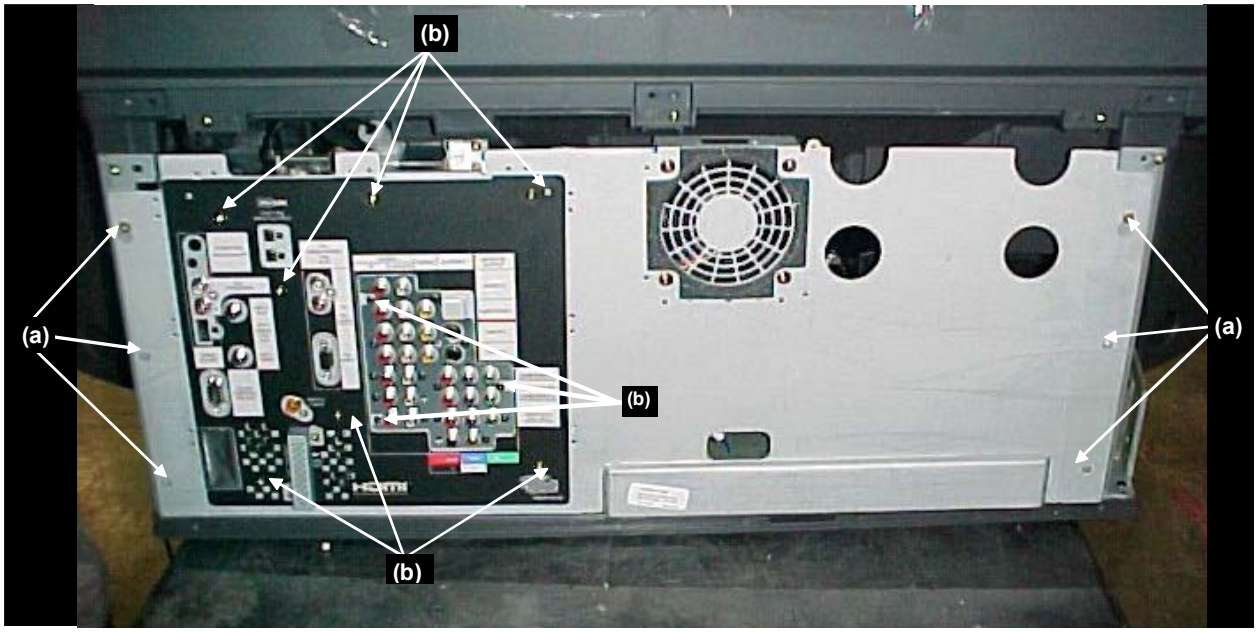
COVER-BACK Removal

1) Remove 9 screws (a)
2) Remove 6 screws (b)
3) Remove 2 screws (c)
4) Pull the COVER-BACK from the cabinet.

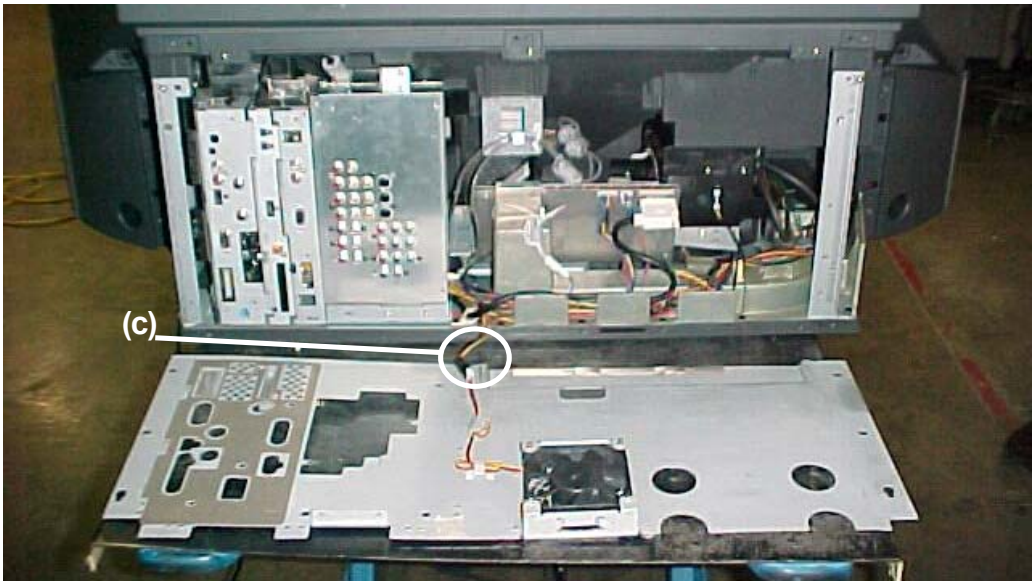


REAR PLATE Removal

1) Remove 6 screws (a)
2 Remove10 screws (b)
3) Pull the Rear Plate from the cabinet.

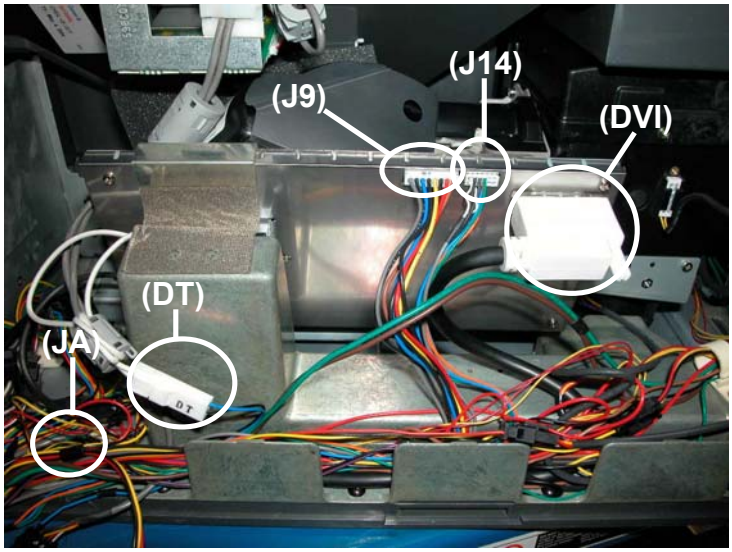


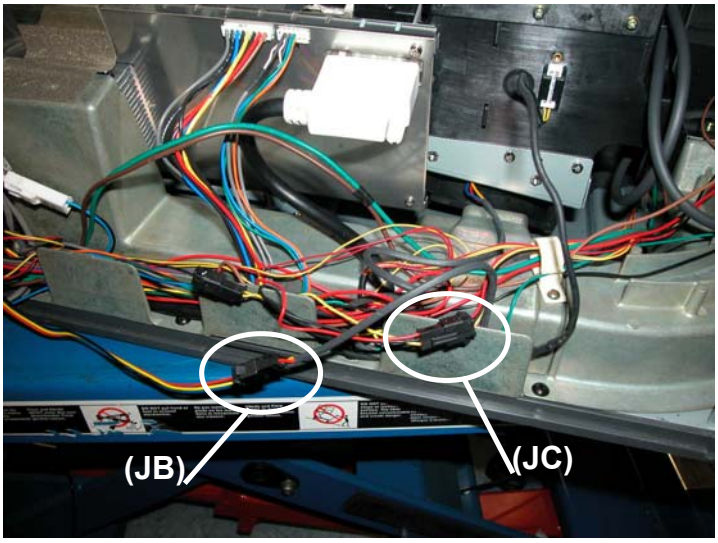
4) Disconnect FN2 connector (c)



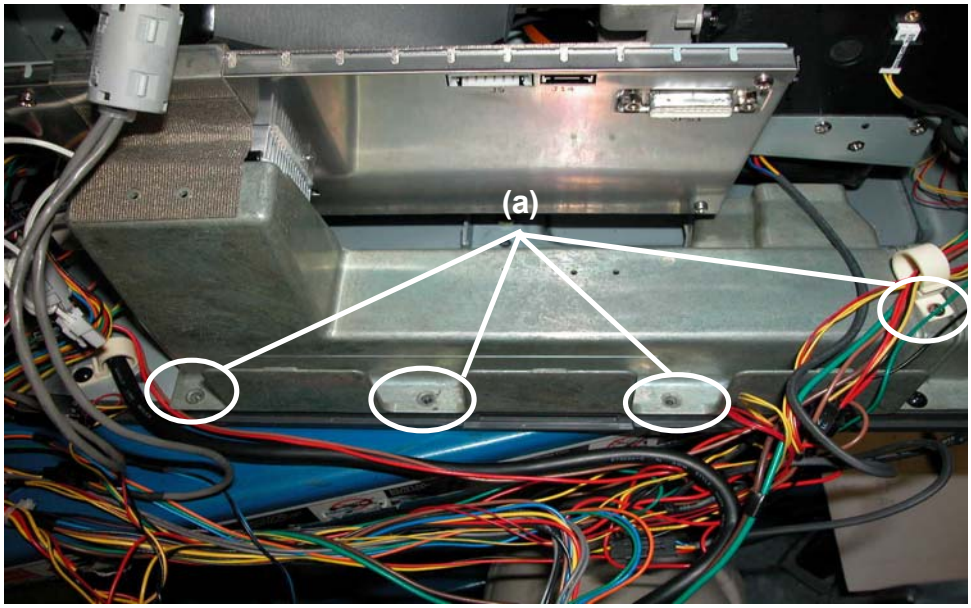
Removing the Optical Engine

1) Disconnect all connectors connected to the Optical Engine and the PWB-DMD. (JA, DT, J9, J14, DVI, JB, JC)

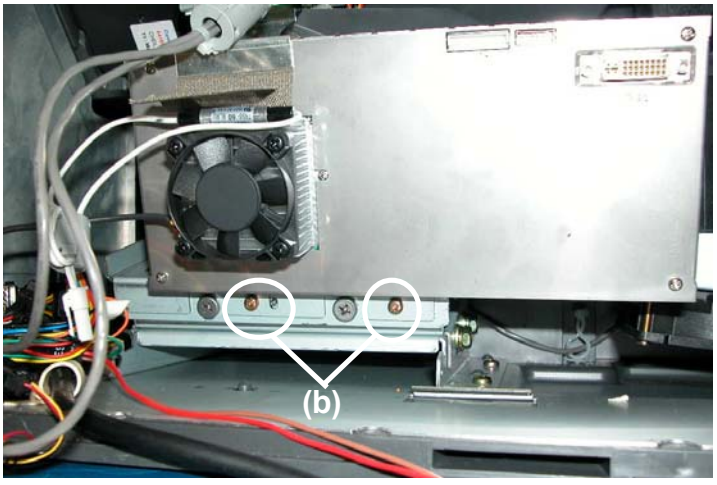


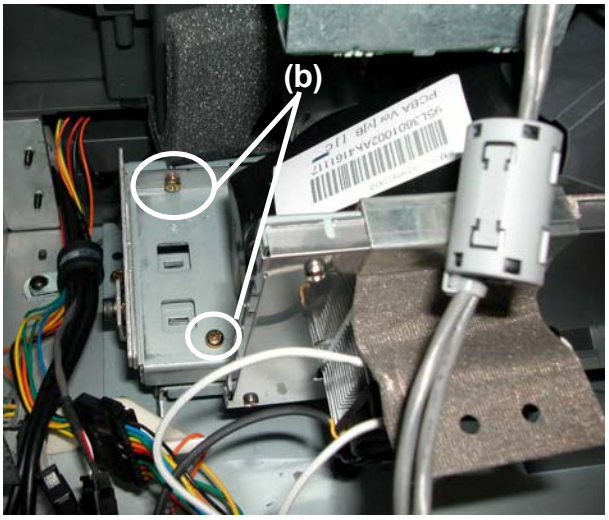


2) From the rear of the TV, remove the 4 screws (a), to remove the COVER-DUCT.

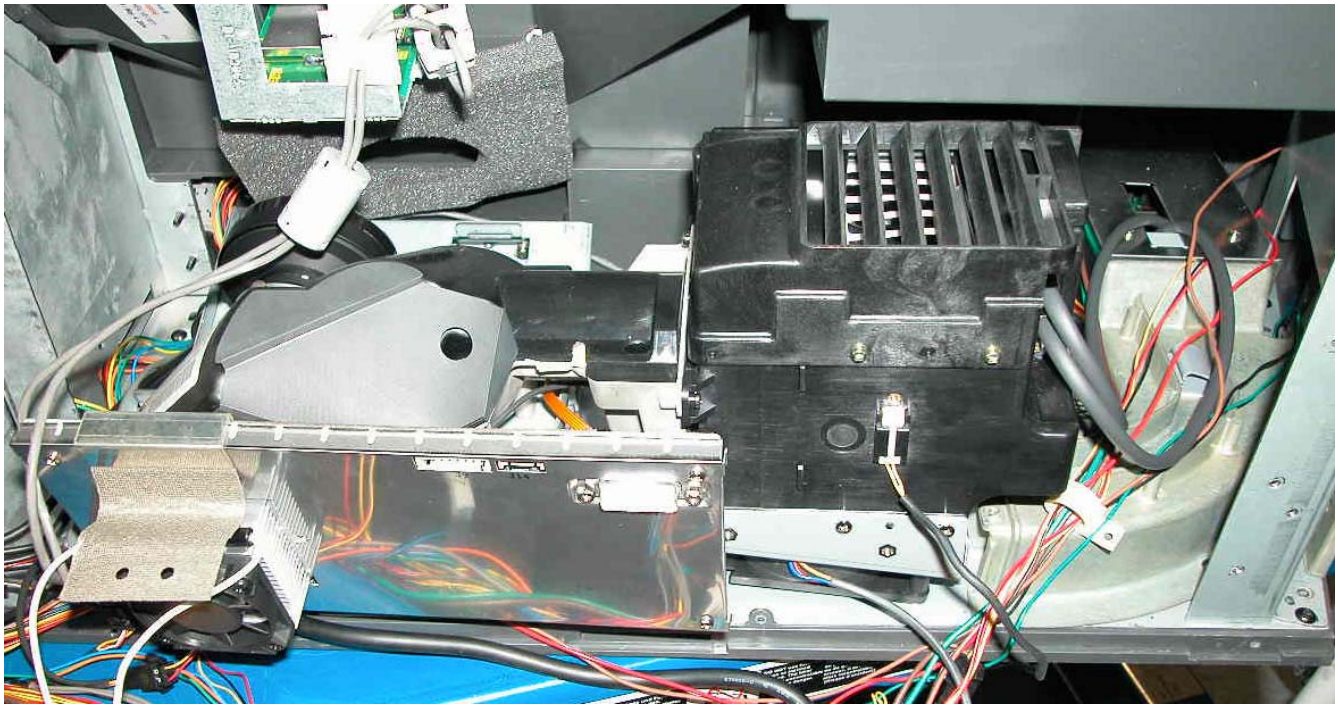


3) From the rear of the TV, remove the 4 screw (b), securing the bottom plate to the Adjuster assembly.



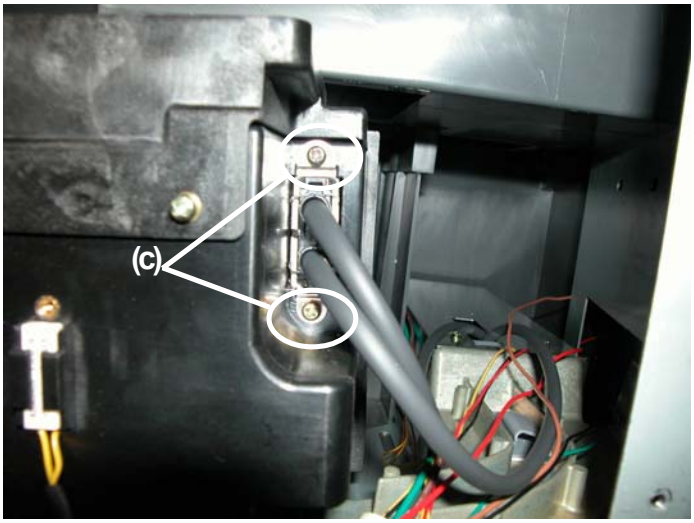


4) Slide the Optical Unit, PWB-DMD and bottom plate towards the rear to remove the unit from the TV.



5) Loosen 3 screws and remove the lamp cartridge.

6) Remove 2 screws (c) from the lamp power cable.



Removing the followlwing parts from the Optical Engine

- DMD Heat Sensor
- The Optical Engine bottom plate and black bracket
- Lamp Housing Grill

DMD Heat Sensor Removal (*Figure 1*)

1) Remove screw (a) on the top of the DMD Fan.
2) Set the Heat Sensor aside to install on the replacement Optical Engine.

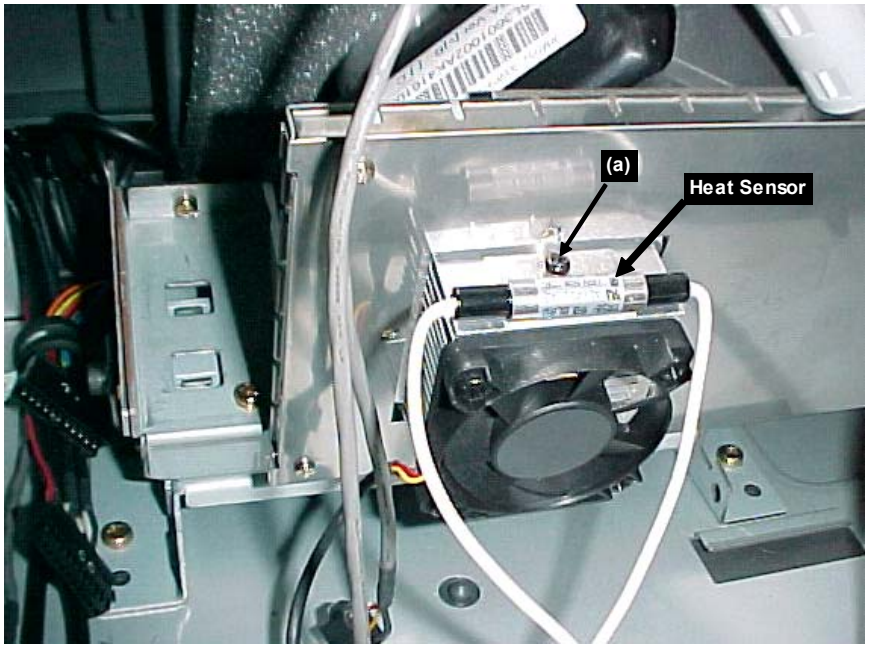


Figure 1: DMD Heat Sensor

Bottom Plate & Black Bracket Removal

1) Remove the 4 screws (B) from the Bottom Plate *(Figure 2)*
2) Remove the two screws (c), holding the Black Bracket to the Lamp Box. *(Figure 3)*

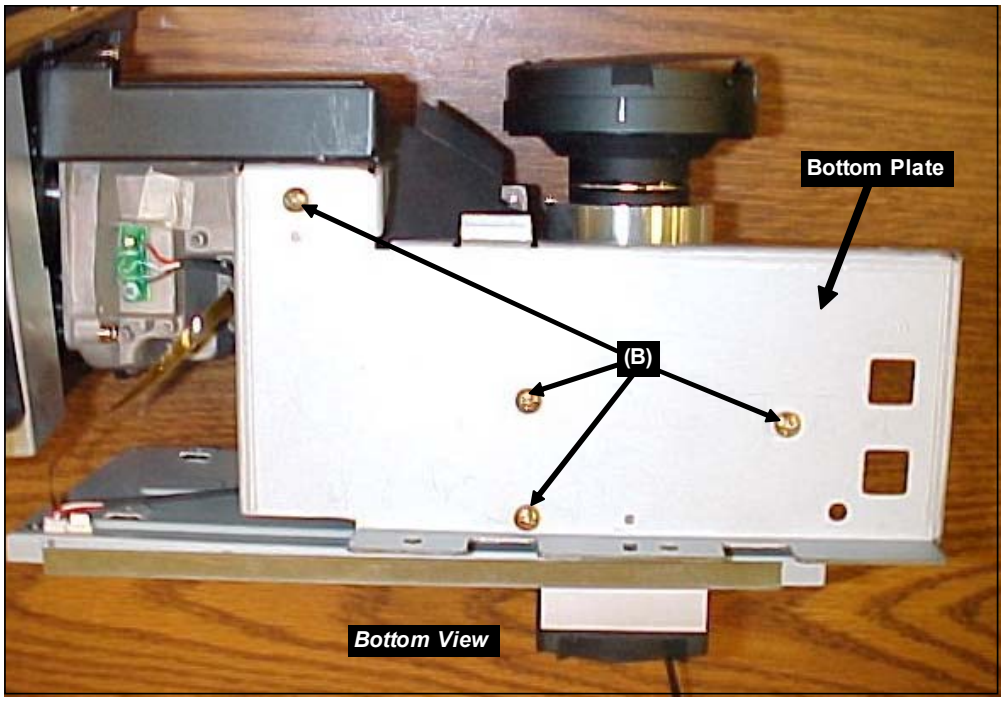


Figure 2: Bottom Plate

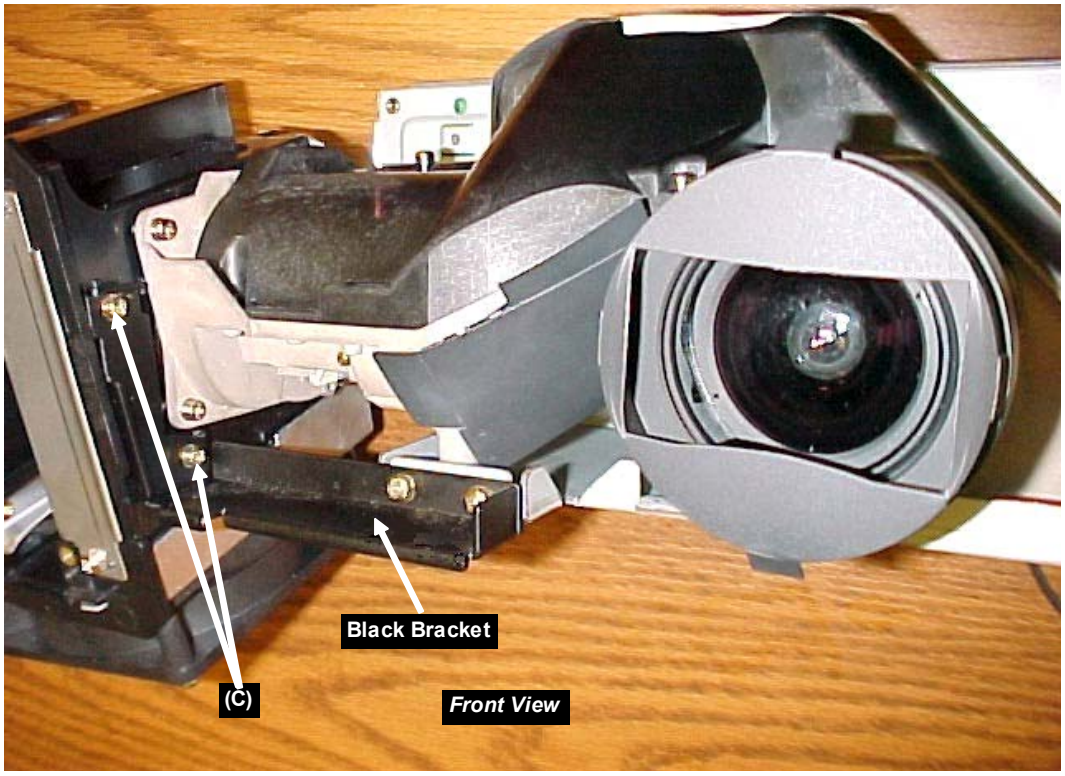
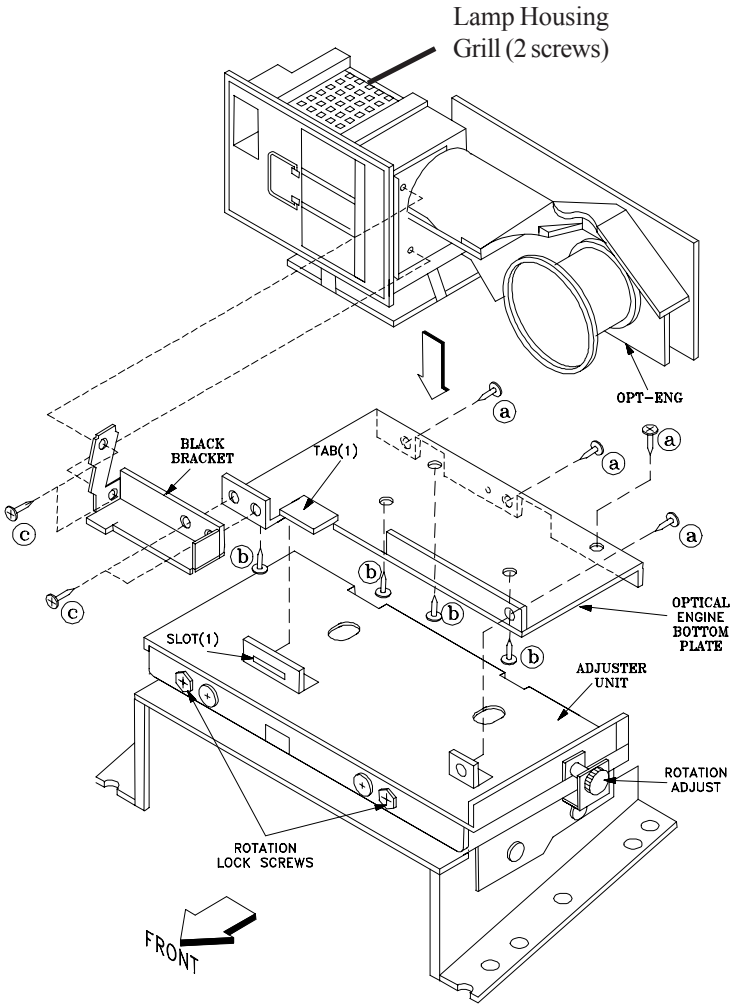


Figure 3: Black Support Bracket

Installing the Optical Engine

1) Remove the Bottom Plate, Black Support Bracket, Lamp Housing Grill and the Heat Sensor from the original Optical Engine and install on the replacement Engine.
2) Transfer the Lens Cap from the replacement Engine to the original Engine.
3) Reverse the removal procedure to install the replacement Optical Unit in the cabinet. (See diagram to the right for reference)



The Optical Engine is mounted on the Adjuster assembly as shown in the diagram to the right.

1) The Optical Engine is secured to the bottom plate by 4 screws (b).
2) The Black Bracket is secured to the bottom plate and the Lamp Housing with 4 screws (c).
2) The bottom plate tab (1) slides into slot (1) on the Adjuster.
3) Four screws (a) secure the bottom plate and Optical Engine to the Aduster assembly.
4) Two screws secure the Lamp Housing Grill.
5) To replace the Optical Engine, only the bottom plate, black bracket and the Optical Engine need to be removed.

Adjustments

1) **DATA COPY Procedure**
   V26 Chassis: Press <MENU> <2-4-5-7> <0> Select "Copy Light Engine Data to DM", Press <ENTER>.
   VK26 Chassis: DATA COPY procedure is not necessary.
2) The following adjustments may have to be performed after the installation. (**see service manual**)
   - Horizontal and Vertical Electrical Centering Adjustment.
   - Optical Unit Rotation Adjustment
   - Optical Unit Keystone Adjustment

Repackaging - Important... Engines returned with damage due to improper packaging will not receive credit.

1) Place the Lens Cap onto the original Optical Engine and place the Engine into the plastic bag.
2) Pack the Engine in the same manner the replacement was supplied, using all foam packing material. Use *Figure 4* as a reference.

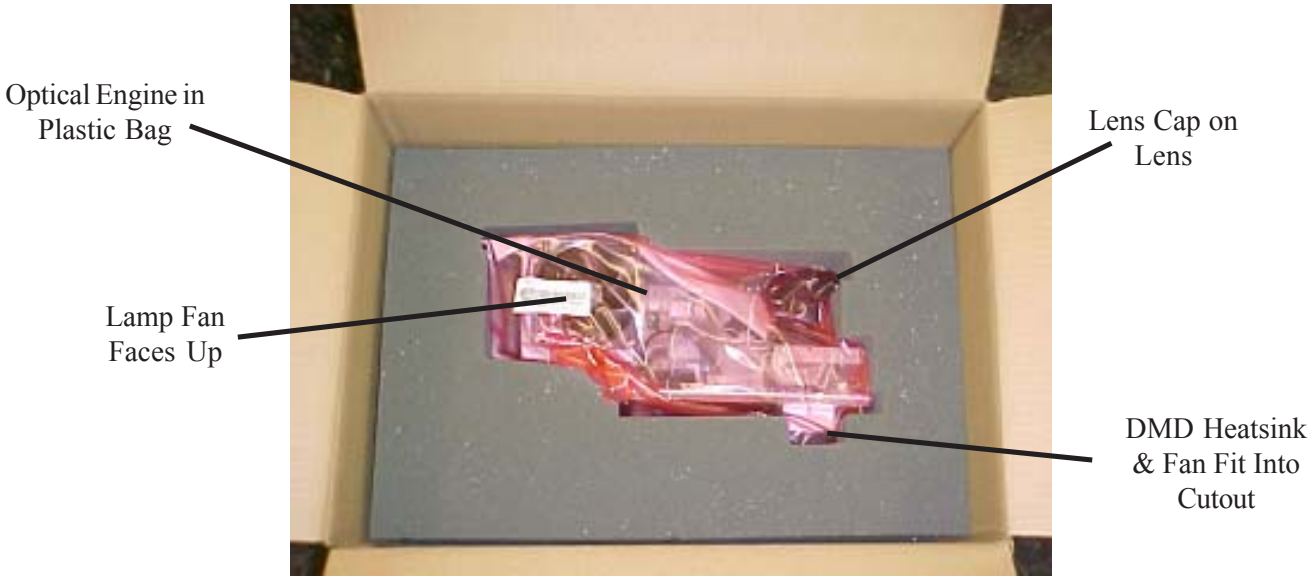


Figure 4: Repackaging

INSTALLATION INSTRUCTIONS: HDD REPLACEMENT V26++

PART NUMBER: 939P989010 (ASSY-HDD-UNIT)
MODELS: WD-52825 / WD-62825

1) First, remove all external 1394 devices.
2) Before replacing HDD: Press MENU + 2470
3) Select TV Disc: Press Enter, wait for confirmation and press Enter again. *See Figure 1-2*

figure 1

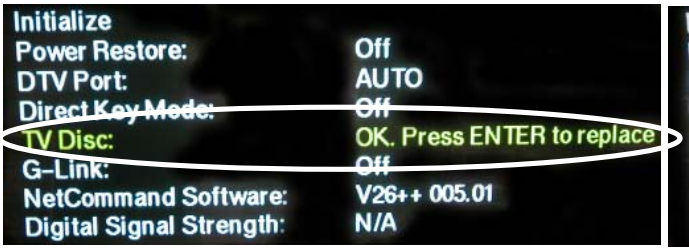
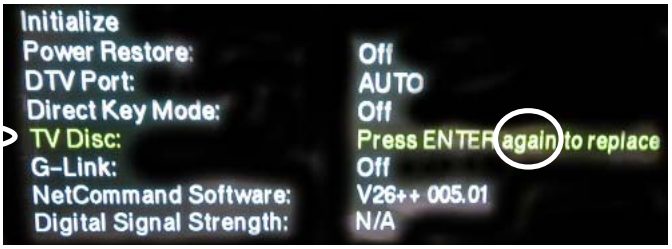


figure 2



4) Remove ASSY-HDD-UNIT. *See Figures 3~5*
   a) Disconnect (2) 1394 cables "A" and "B" from ASSY-HDD UNIT
   b) Disconnect power connections P1 and PD. *See Figure 3*
   c) Remove screws "C" (5). *See Figures 4-5*

figure 3

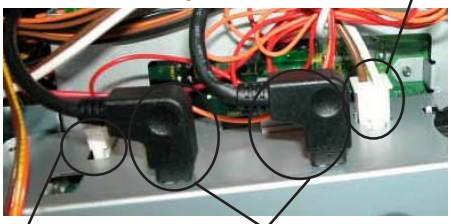


figure 4

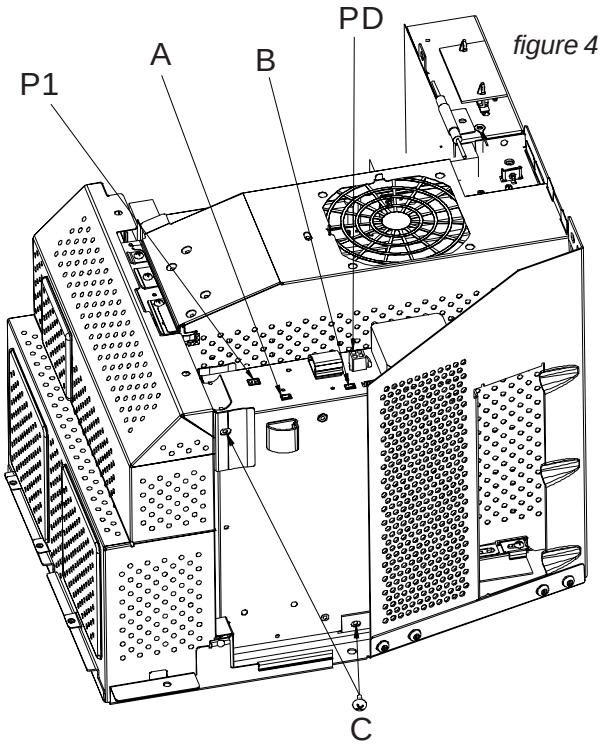


figure 5

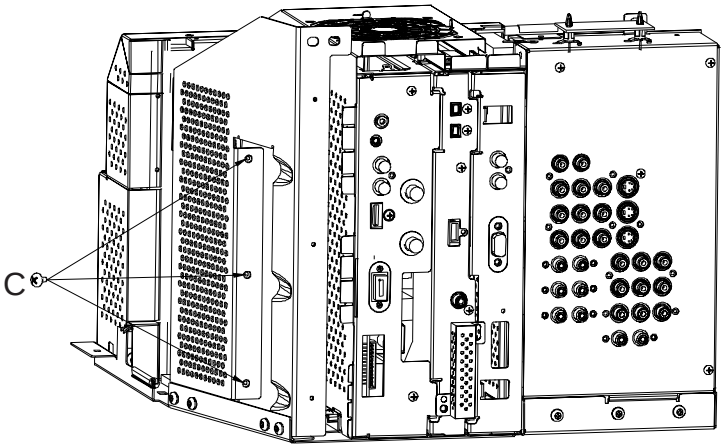
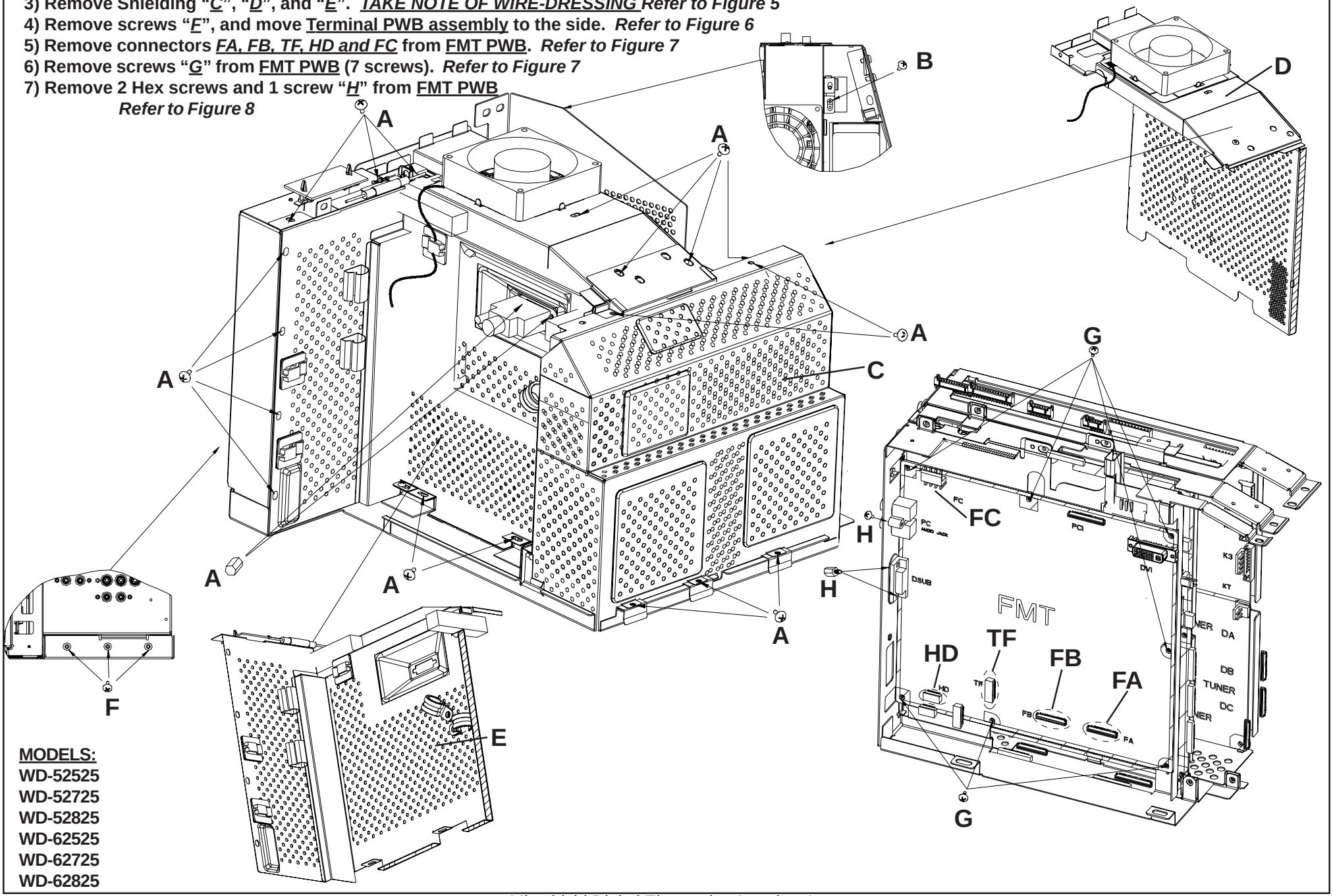


figure 6

5) Install new ASSY-HDD-UNIT. Refer to Figures 3~5
6) Power on TV and confirm TV Disc icon is found. *Refer to Figure 6*
7) Install other external 1394 devices and test record/playback function.

INSTALLATION INSTRUCTIONS: ASSY-PWB-FMT (P/N: 930B924001 / 930B924002 / 930B924003)

1) Remove screws "A" (18 screws and 2 Hex). ***Refer to Figures 1~3 (On page 2)***
2) Remove screw "B". ***Refer to Figure 4***
3) Remove Shielding "C", "D", and "E". ***TAKE NOTE OF WIRE-DRESSING Refer to Figure 5***
4) Remove screws "F", and move Terminal PWB assembly to the side. ***Refer to Figure 6***
5) Remove connectors FA, FB, TF, HD and FC from FMT PWB. ***Refer to Figure 7***
6) Remove screws "G" from FMT PWB (7 screws). ***Refer to Figure 7***
7) Remove 2 Hex screws and 1 screw "H" from FMT PWB
Refer to Figure 8



MODELS:
WD-52525
WD-52725
WD-52825
WD-62525
WD-62725
WD-62825

INSTALLATION INSTRUCTIONS: ASSY-PWB-FMT (P/N: 930B924001 / 930B924002 / 930B924003)

FIGURE 1

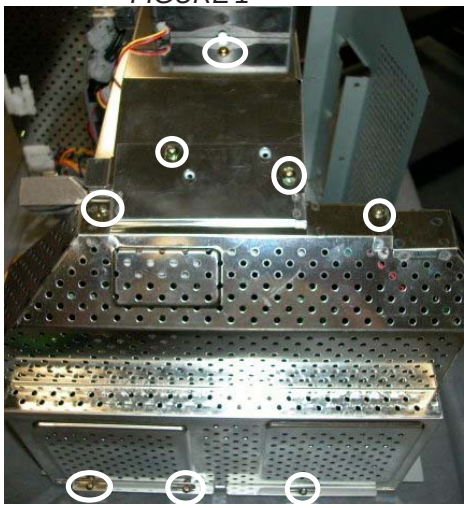


FIGURE 2

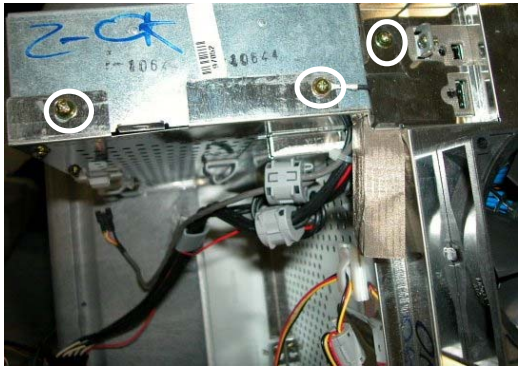


FIGURE 3

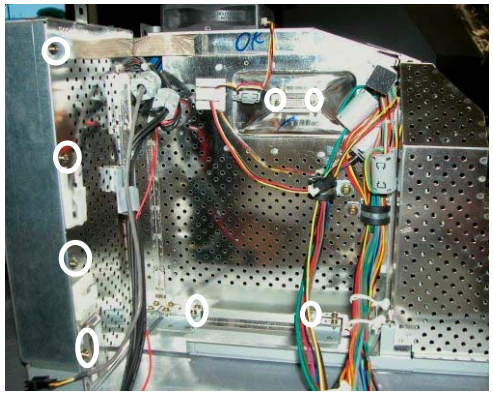


FIGURE 4

FIGURE 5

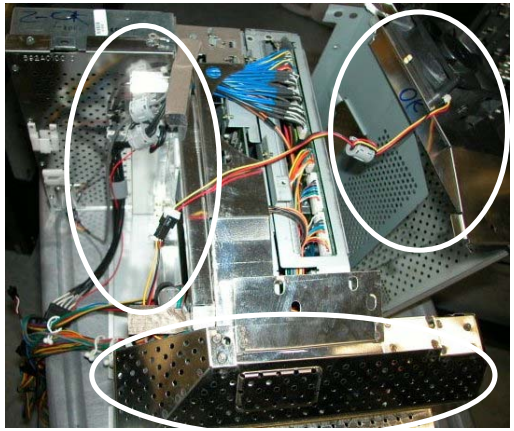


FIGURE 6

FIGURE 7

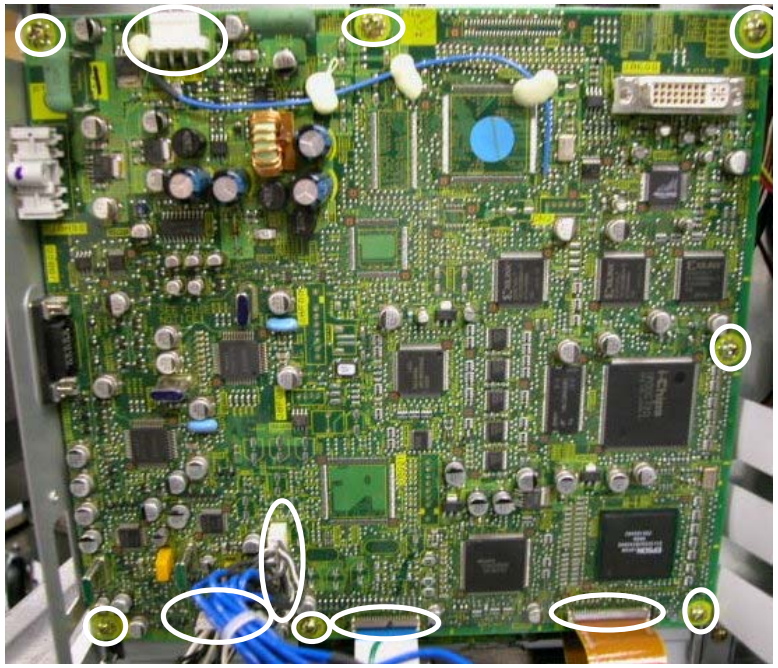
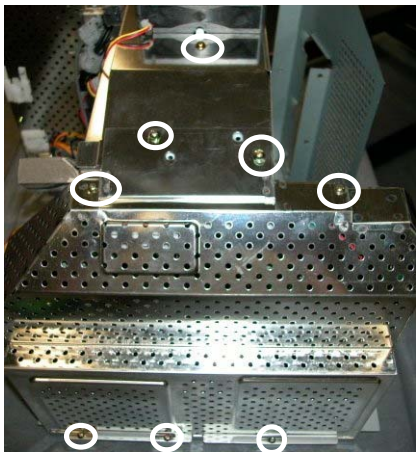


FIGURE 8

INSTALLATION INSTRUCTIONS: ASSY-PWB-DM REPLACEMENT

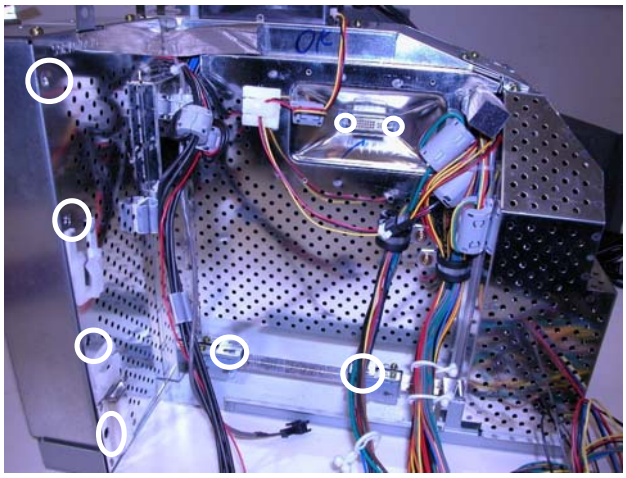
PART NUMBER: 934C116001 / 934C116002 / 934C116003 (ASSY-PWB-DM)
MODELS: WD-52525 / WD-62525 / WD-52725 / WD-62725 / WD-52825 / WD-62825

1) REMOVE (8) SCREWS

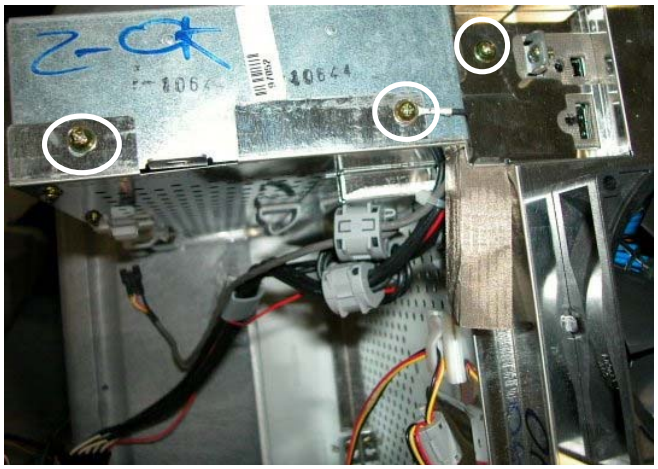


2) REMOVE (3) SCREWS

3) REMOVE (6) SCREWS AND 2 HEX
NOTE WIRE DRESSING FOR RE-INSTALL

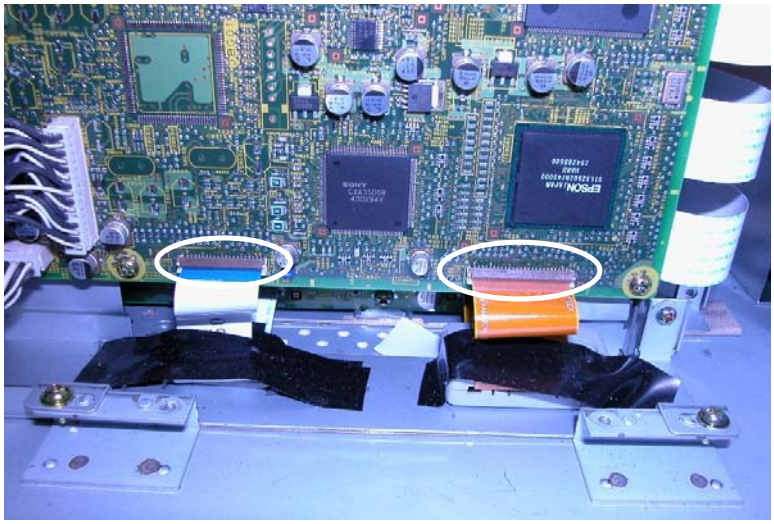


4) REMOVE (3) SCREWS



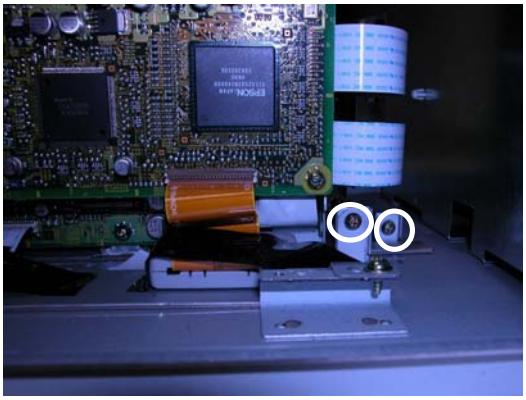
5) REMOVE SHIELDS

6) REMOVE FA & FB CONNECTORS (When re-install; install to DM PWB first then to FMT)

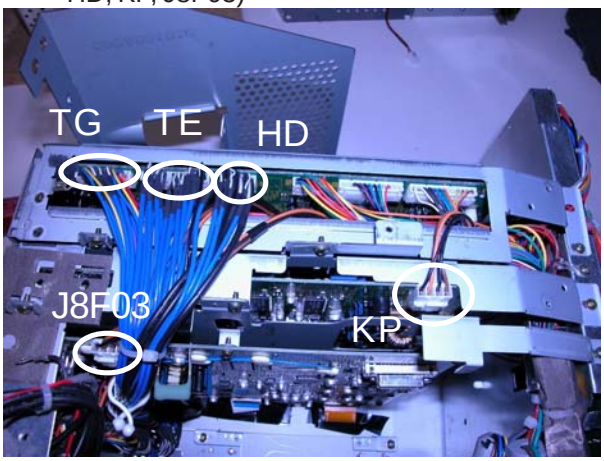


7) REMOVE (2) FERRITE CORES

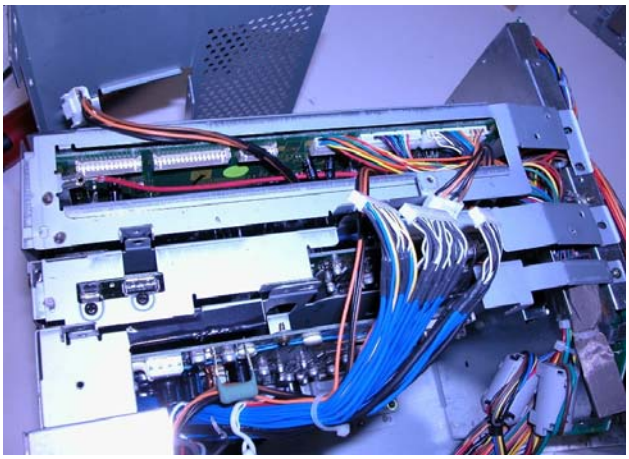
8) REMOVE (2) SCREWS



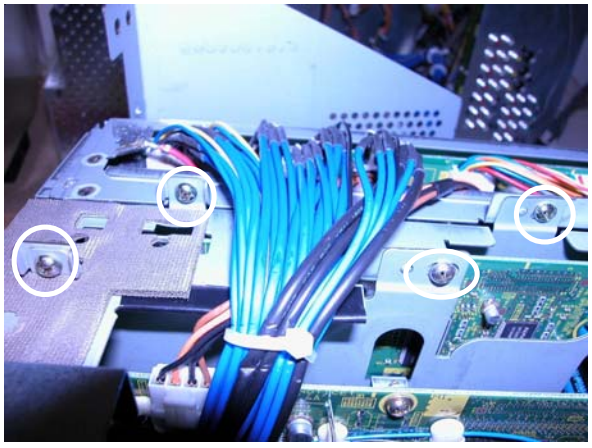
9) REMOVE (5) CONNECTORS (TG, TE, HD, KP, J8F03)



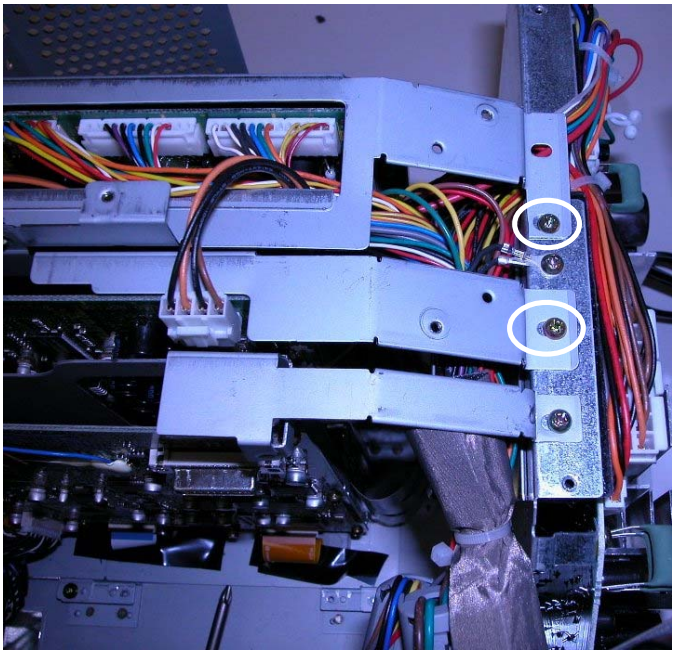
10) CONNECTOR REFERENCE



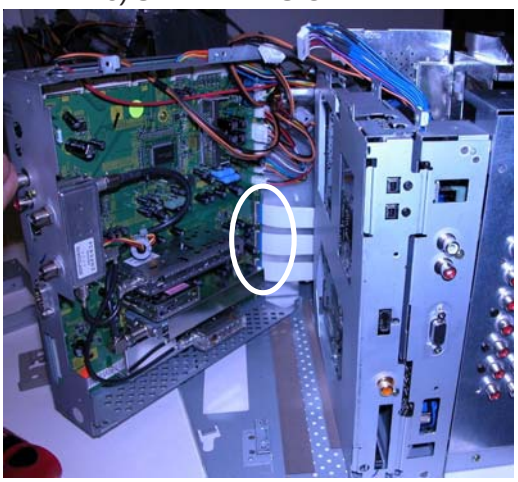
11) REMOVE (4) SCREWS



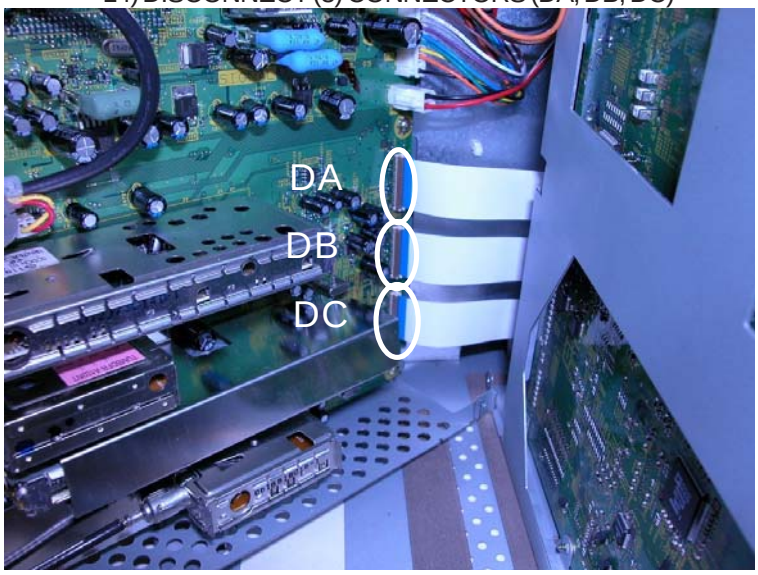
12) REMOVE (2) SCREWS



13) SEPARATE SIGNAL PWB

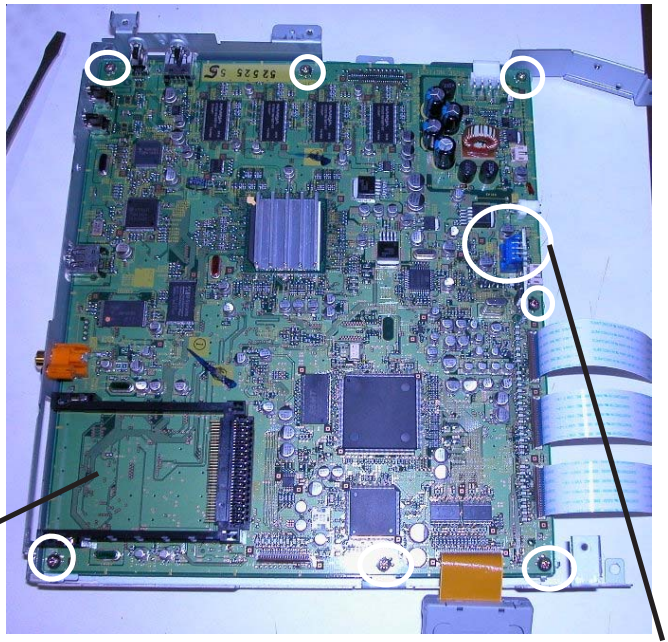


14) DISCONNECT (3) CONNECTORS (DA, DB, DC)



15) DISCONNECT (2) CONNECTORS (PF, KT)

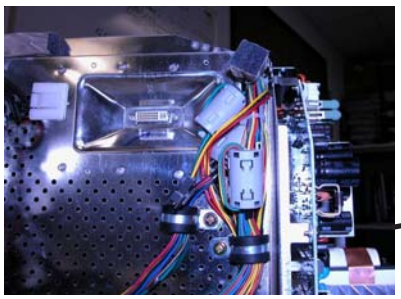
16) PULL DM ASSY FROM CHASSIS - REMOVE (7) SCREWS



(Remove CableCard if installed.)

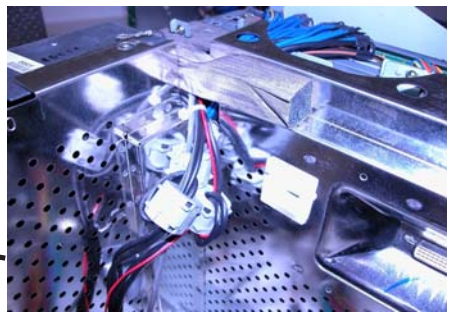
17) REMOVE E2P PWB FROM DEFECTIVE PWB AND INSTALL TO NEW DM PWB

18) REMOVE PWB FROM BRACKET REMOVE (3) SCREWS



19) Reverse items 1 to 18 for reassembly.

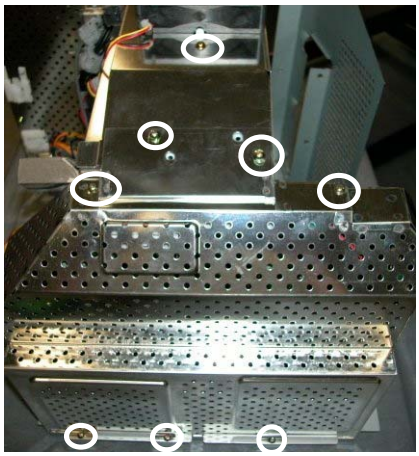
WIRE-HARNESS DRESSING REFERENCE



INSTALLATION INSTRUCTIONS: ASSY-PWB-SIGNAL REPLACEMENT

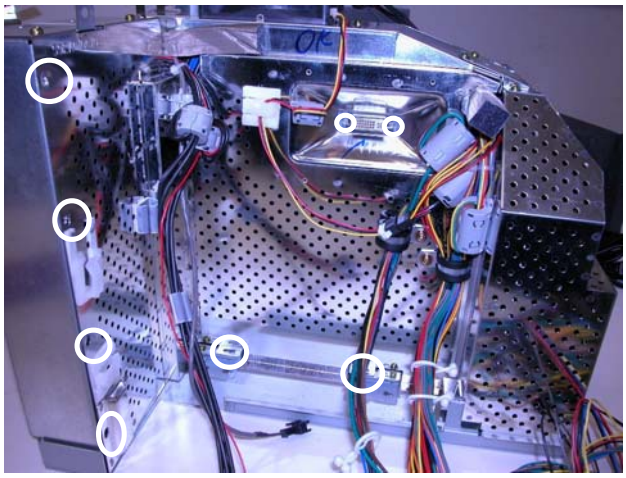
PART NUMBER: 930B923001 / 930B923002 / 930B923003 (ASSY-PWB-SIGNAL)
MODELS: WD-52525 / WD-62525 / WD-52725 / WD-62725 / WD-52825 / WD-62825

1) REMOVE (8) SCREWS

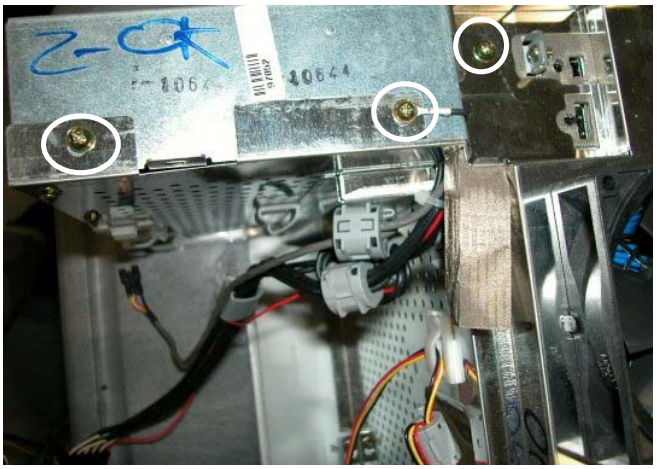


2) REMOVE (3) SCREWS

3) REMOVE (6) SCREWS AND 2 HEX
NOTE WIRE DRESSING FOR RE-INSTALL

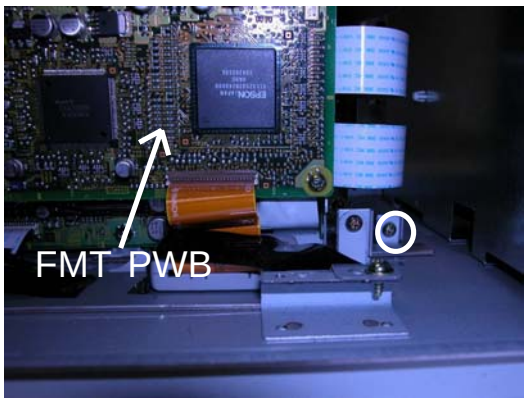


4) REMOVE (3) SCREWS

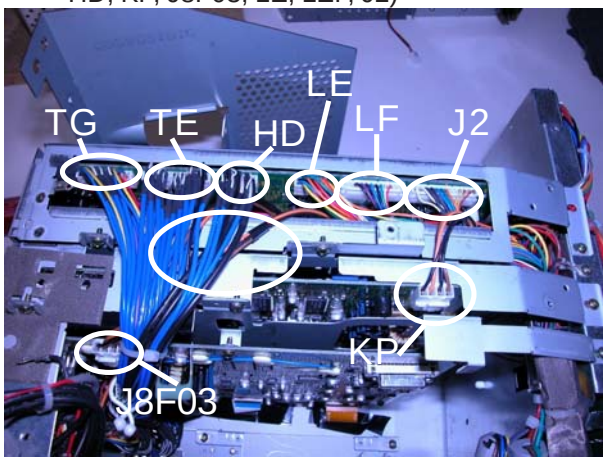


5) REMOVE SHIELDS

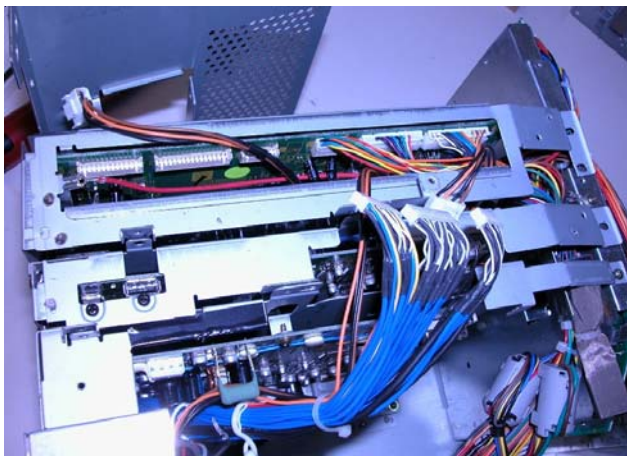
6) FROM FMT-PWB SIDE, REMOVE (1) SCREW HOLDING SIGNAL BRACKET.



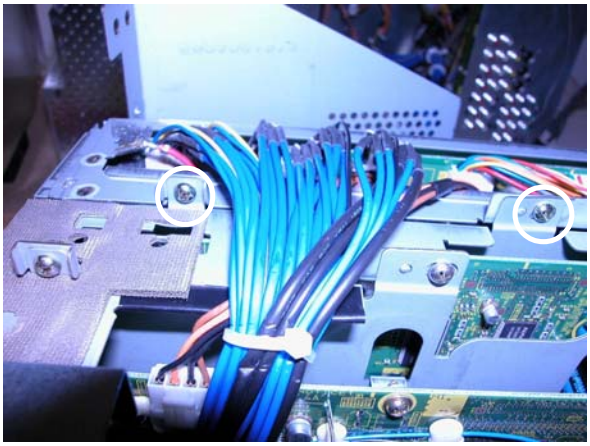
7) REMOVE (8) CONNECTORS (TG, TE, HD, KP, J8F03, LE, LEF, J2)



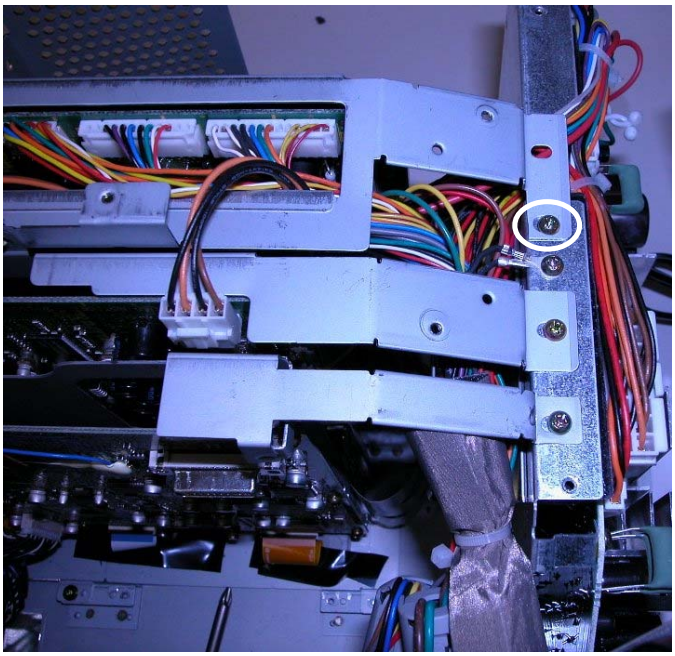
8) CONNECTOR REFERENCE



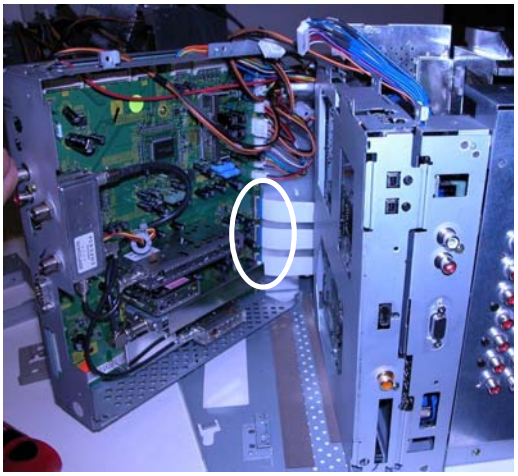
9) REMOVE (2) SCREWS



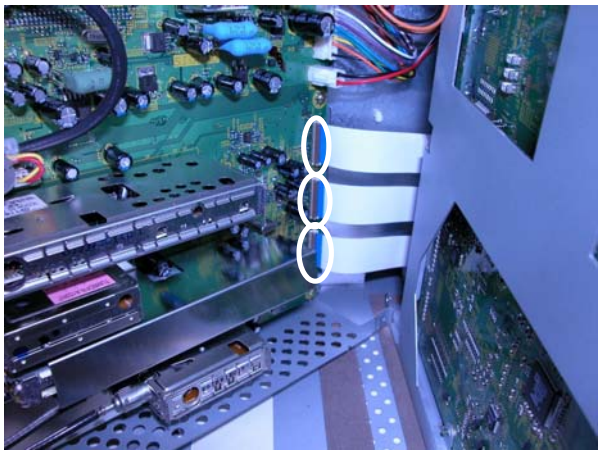
10) REMOVE (1) SCREW



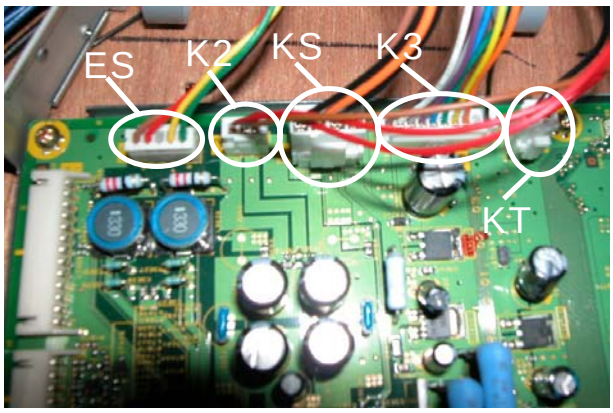
11) SEPARATE SIGNAL FROM DM



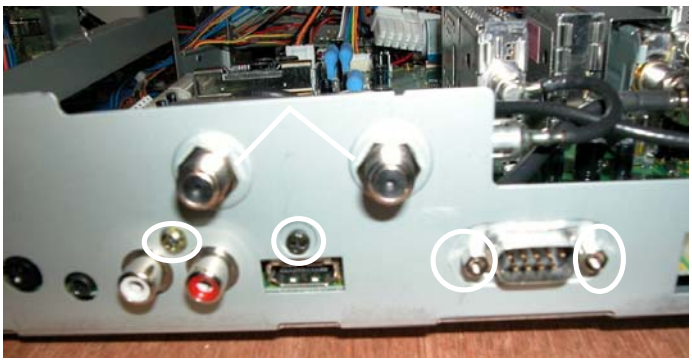
12) DISCONNECT (3) CONNECTORS (DA, DB, DC)



13) DISCONNECT (5) CONNECTORS (ES, K2, KS, K3, KT)



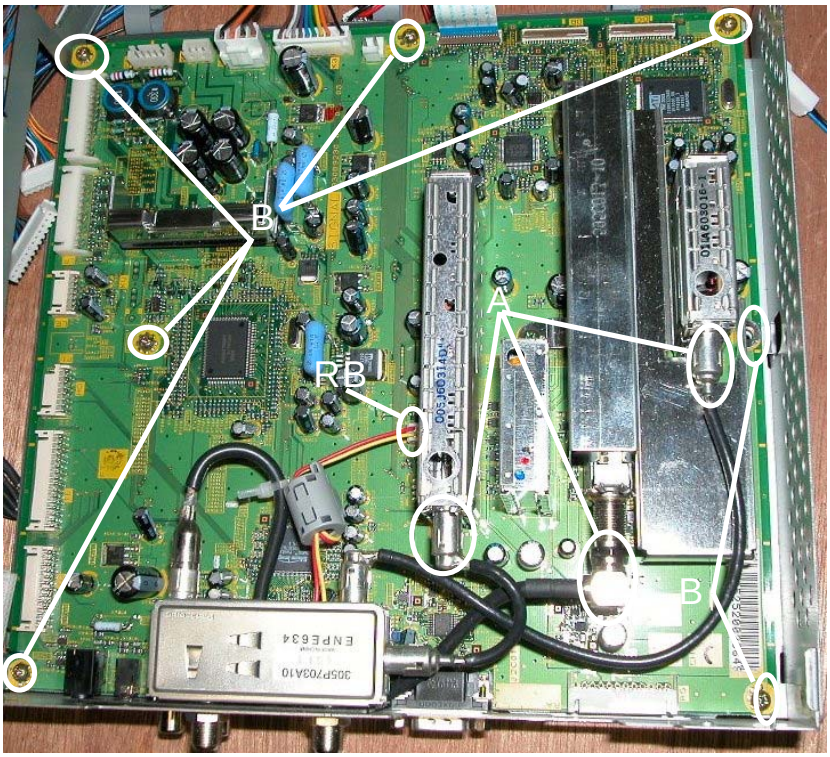
14) REMOVE (2) SCREWS, (2) HEX SCREWS, AND (2) HEX NUTS.



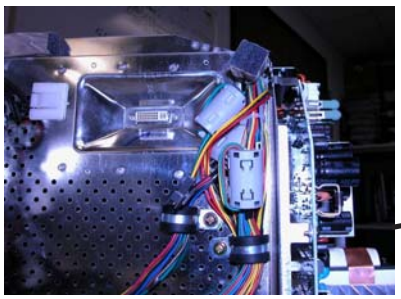
15) REMOVE CONNECTOR RB

16) REMOVE (3) TUNER CONNECTORS (A)

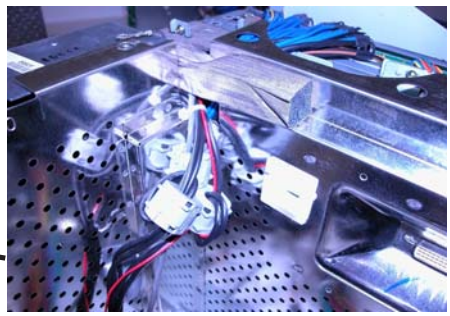
17) REMOVE (7) SCREWS (B)



18) Reverse items 1 to 17 for reassembly.



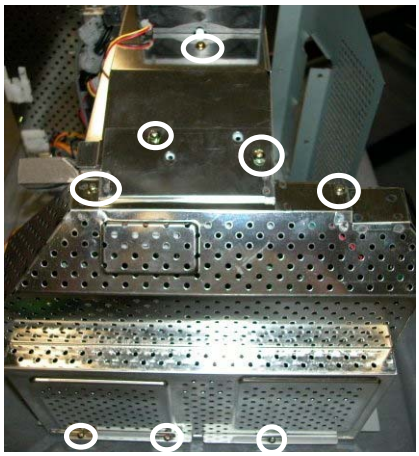
WIRE-HARNESS DRESSING REFERENCE



INSTALLATION INSTRUCTIONS: ASSY-PWB-TERMINAL 1 & 2

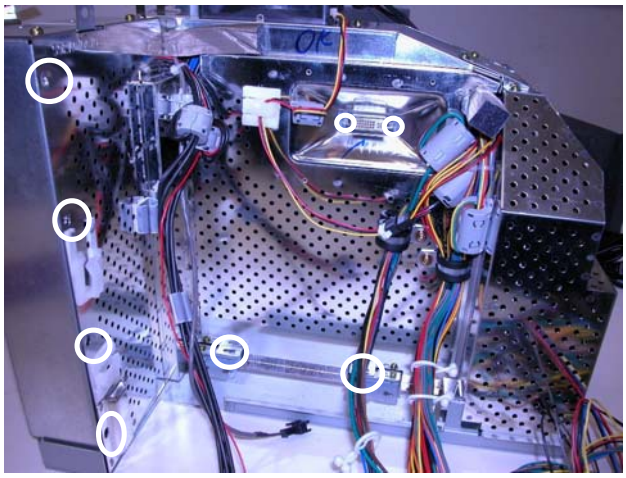
PART #	DESCRIPTION	MODELS
934C117001	ASSY-PWB-TERMINAL-1	WD-52525 WD-62525 WD-52725 WD-62725
934C117002	ASSY-PWB-TERMINAL-1	WD-52825 WD-62825
934C118001	ASSY-PWB-TERMINAL-2	ALL V26 / V26+ / V26++

1) REMOVE (8) SCREWS

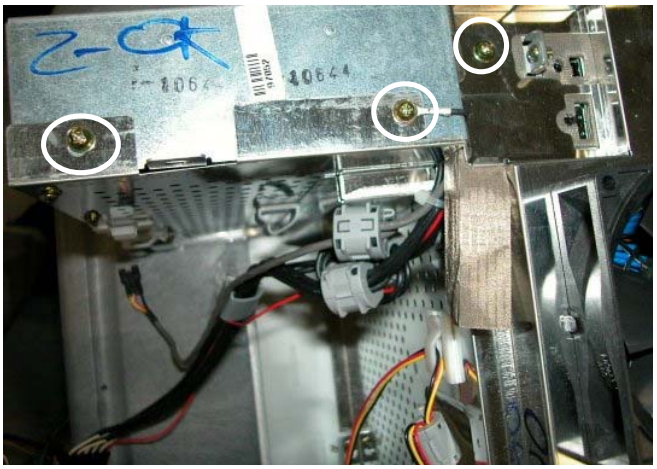


2) REMOVE (3) SCREWS

3) REMOVE (6) SCREWS AND 2 HEX
NOTE WIRE DRESSING FOR RE-INSTALL



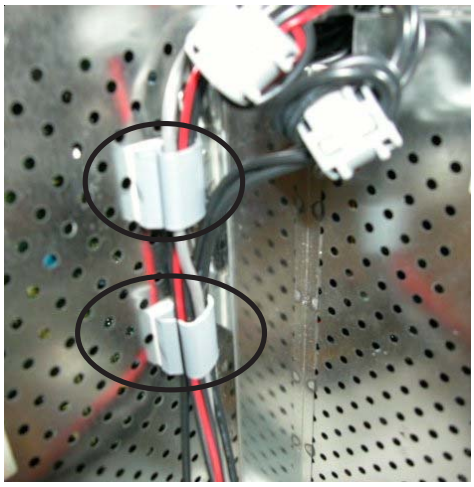
4) REMOVE (3) SCREWS



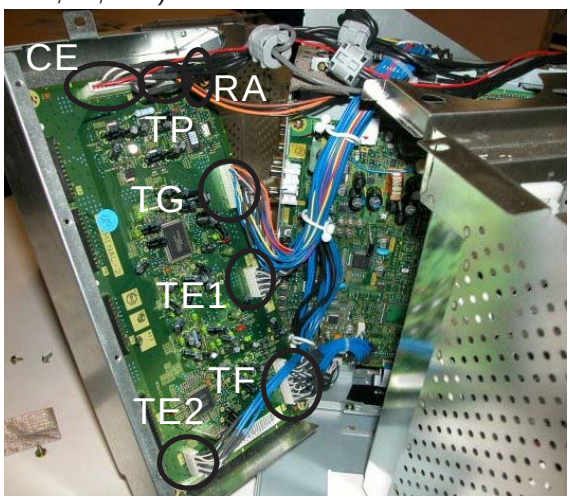
5) REMOVE SHIELDS

6) REMOVE (3) SCREWS HOLDING TERMINAL PWB.

7) REMOVE WIRE FROM CLAMPS



8) REMOVE (7) CONNECTORS (CE, TP, RA,TG, TE1, TF, TE2)



9) REMOVE (11) SCREWS

10) REMOVE (3) SCREWS AND REMOVE BRACKET FROM PWB

11) DISCONNECT (4) CONNECTORS AND (5) RISERS TO SEPARATE TERMINAL 1 FROM TERMINAL 2

11) FOR RE-ASSEMBLY, REVERSE ABOVE STEPS